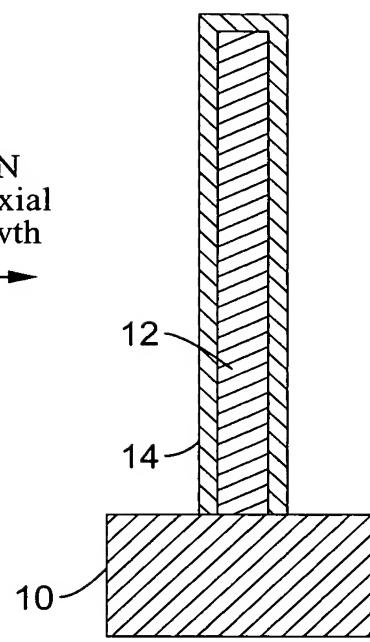


ZnO
Nanowire

FIG. 1A

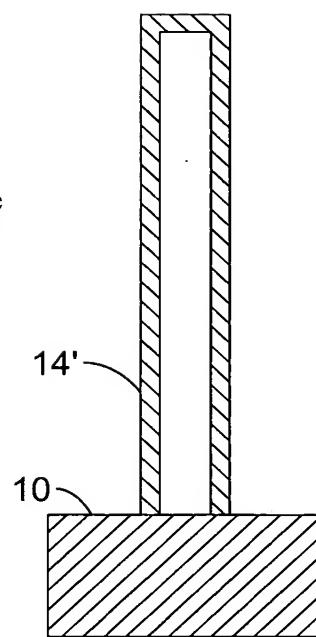
GaN
Epitaxial
Growth



GaN/ZnO
Core-sheath
Structure

FIG. 1B

ZnO
Template
Removal



GaN
Nanotubes

FIG. 1C

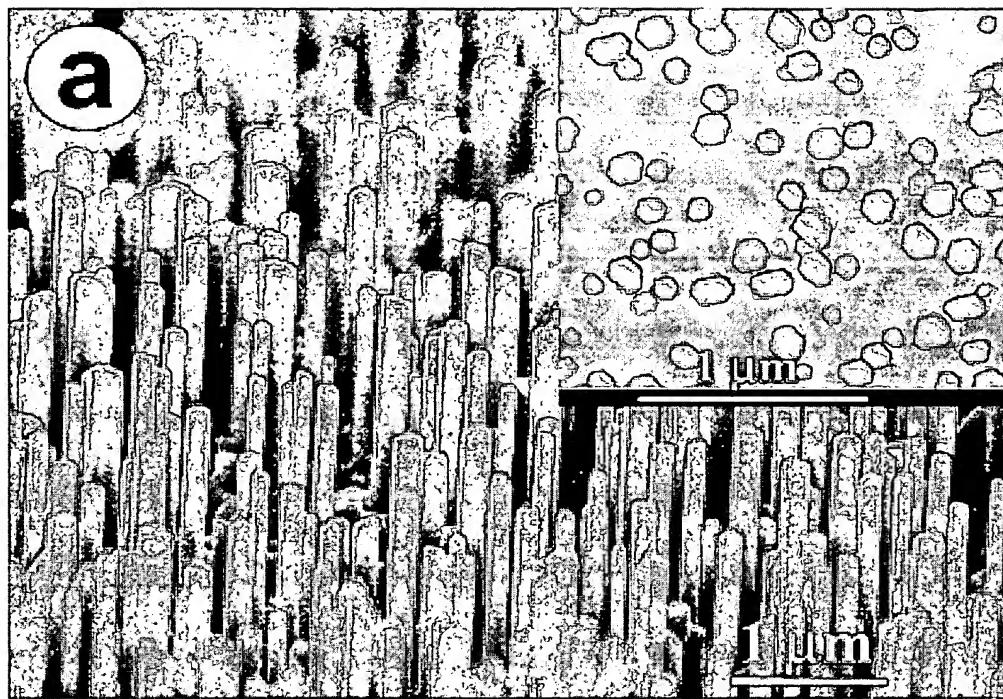


FIG. 2A

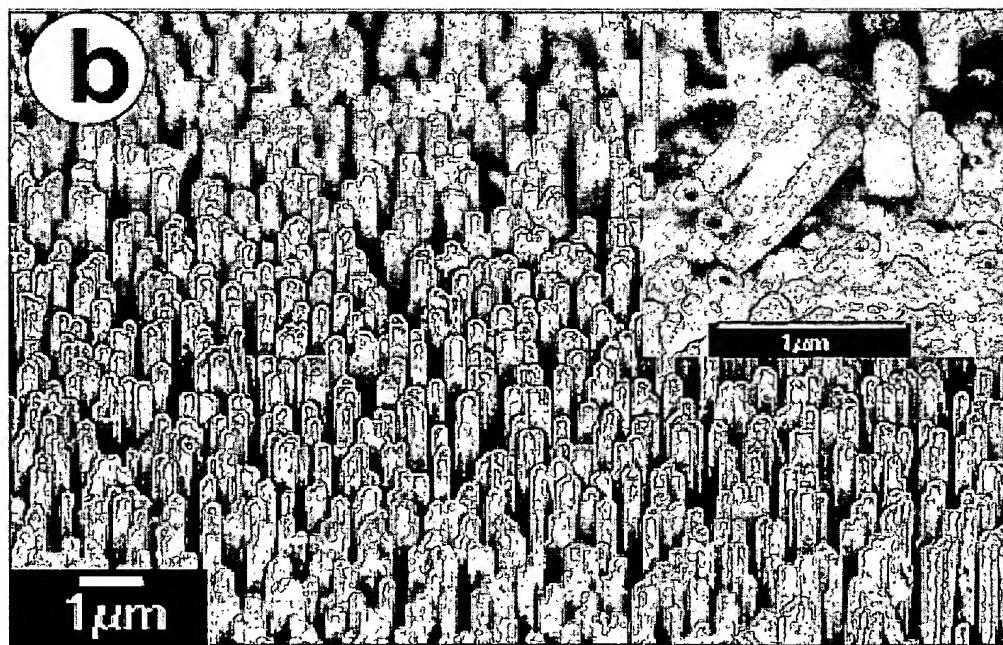


FIG. 2B

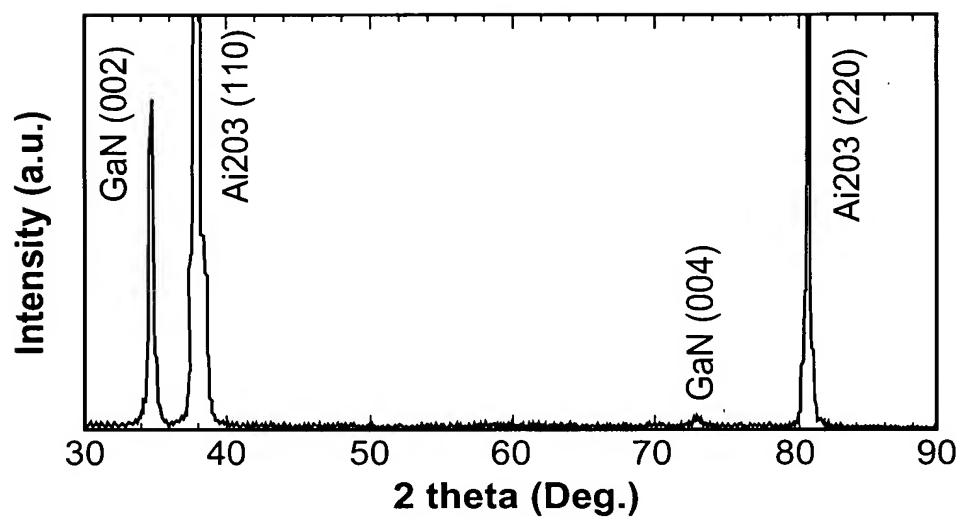


FIG. 3

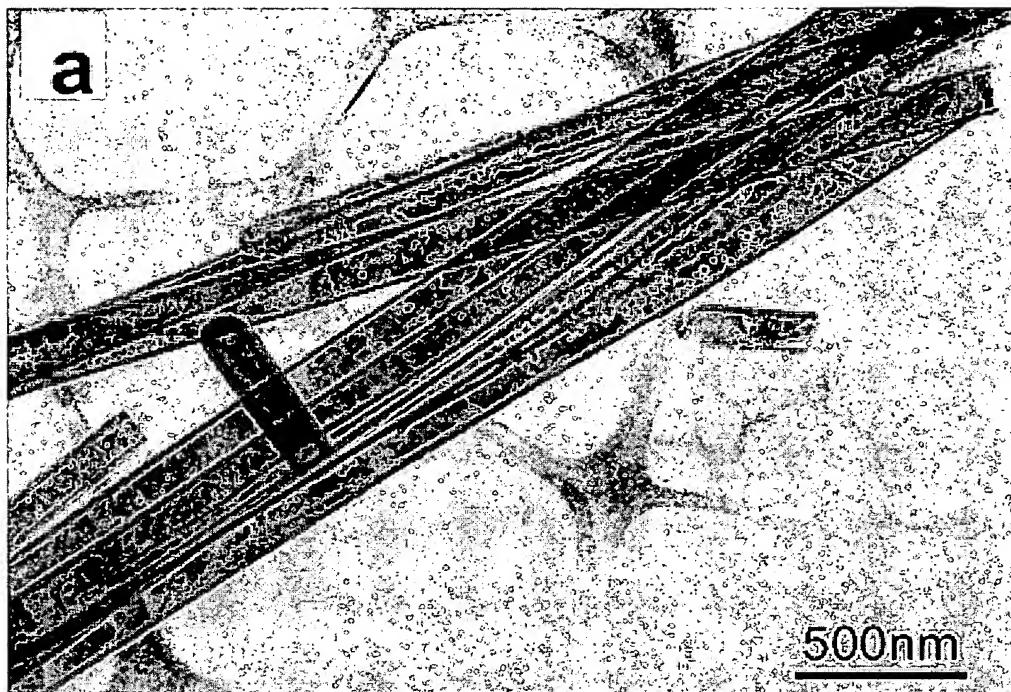


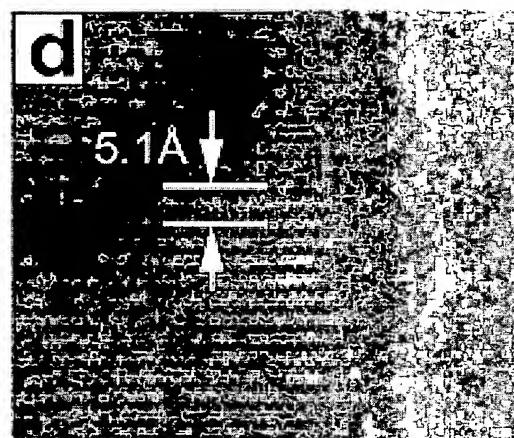
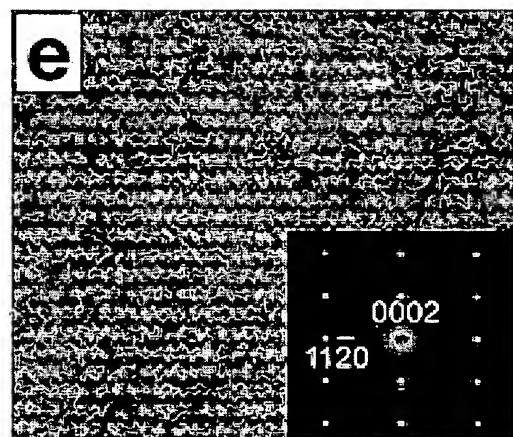
FIG. 4A



FIG. 4B



FIG. 4C

**FIG. 4D****FIG. 4E**

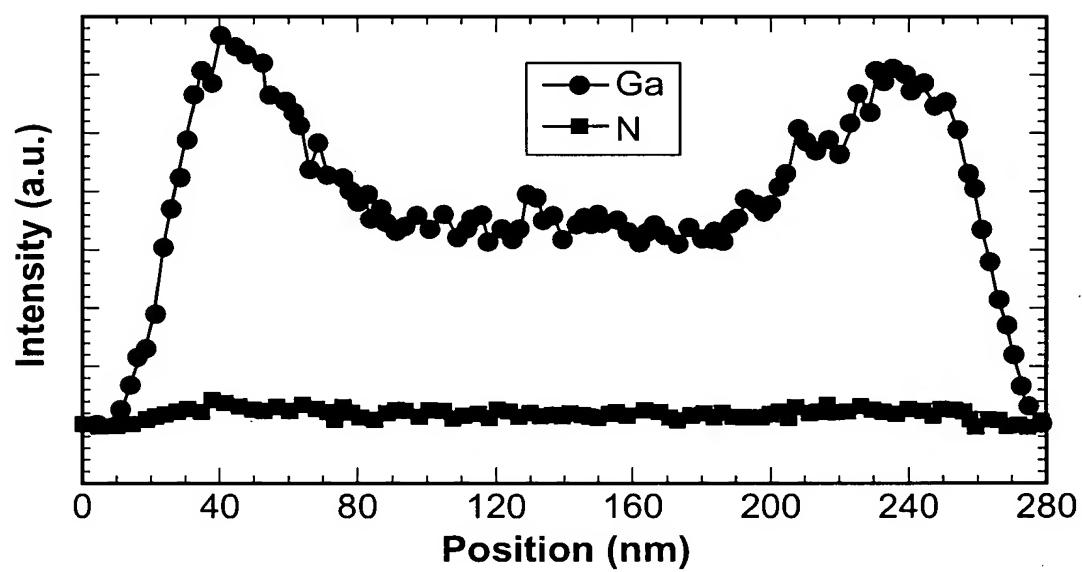
**FIG. 5**



FIG. 6

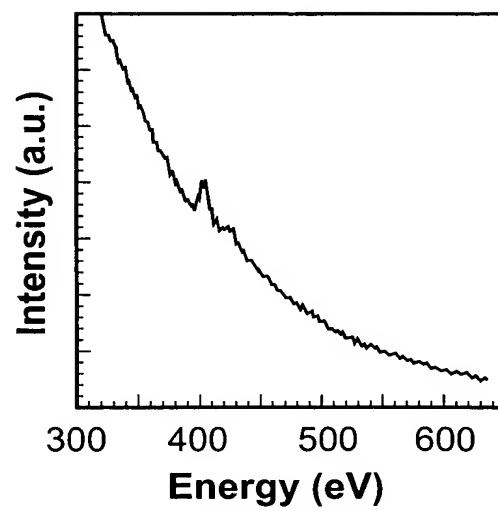
**FIG. 7****FIG. 8**



FIG. 9A

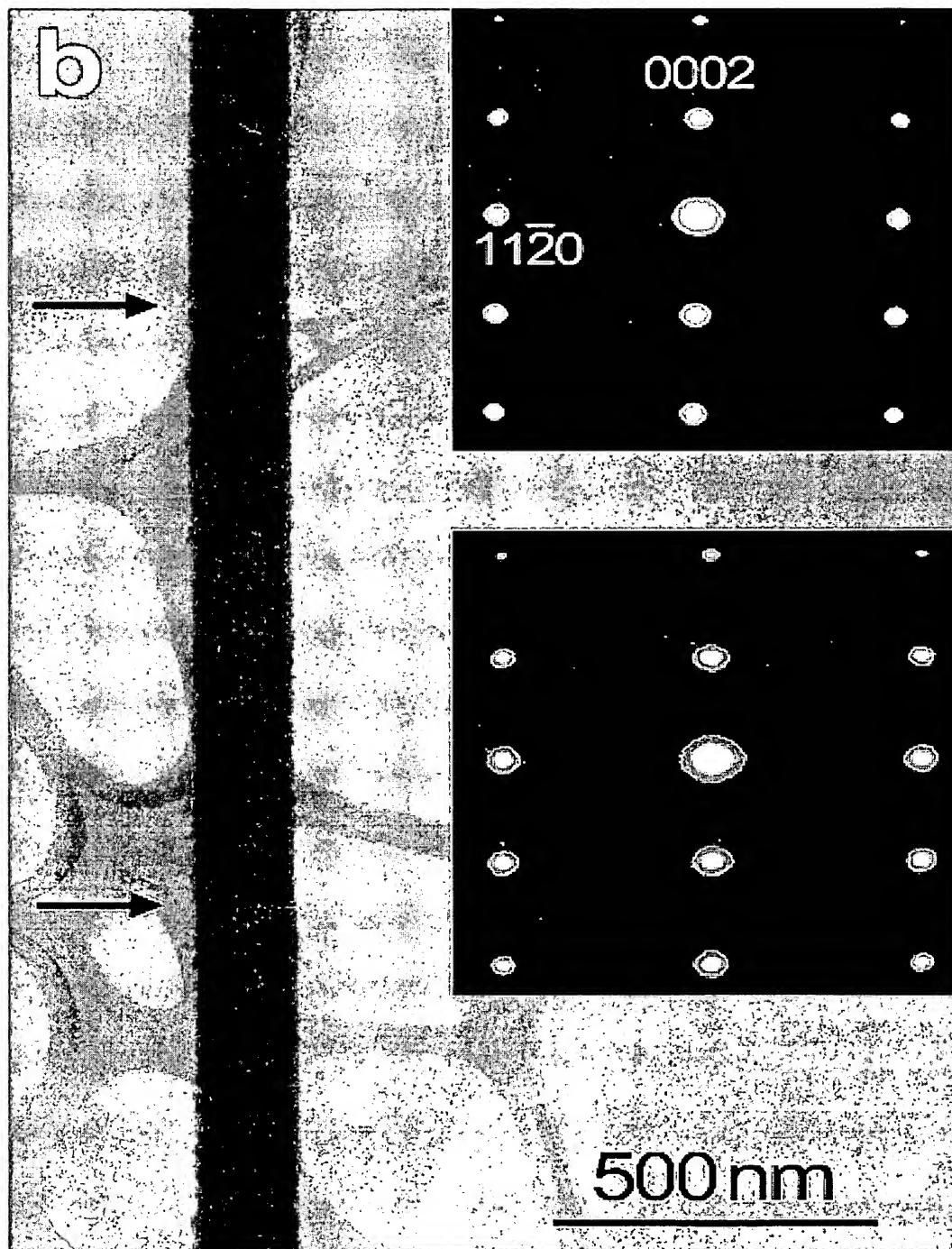


FIG. 9B

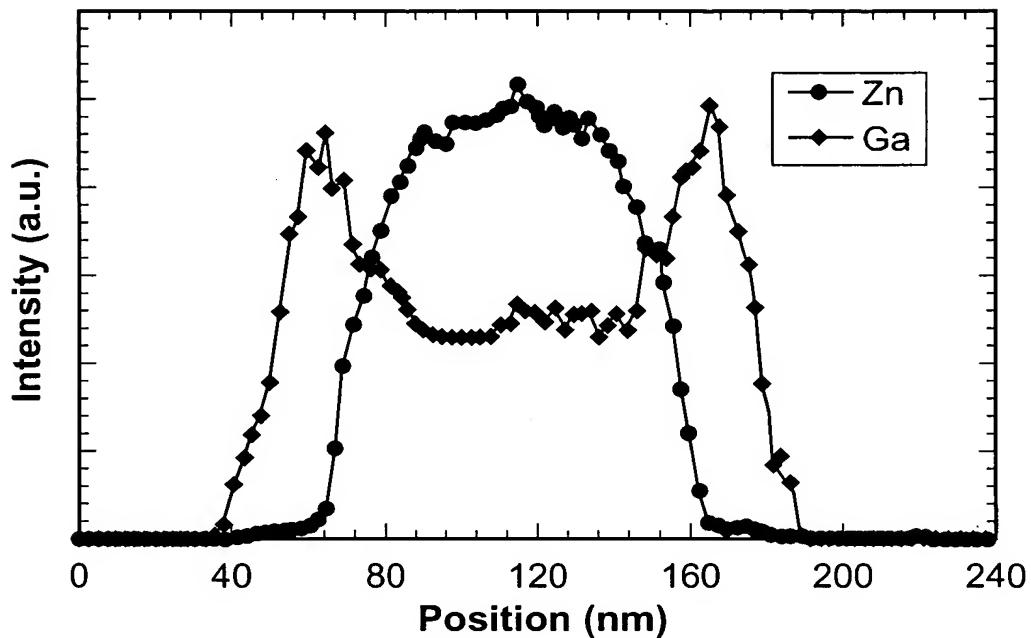


FIG. 10

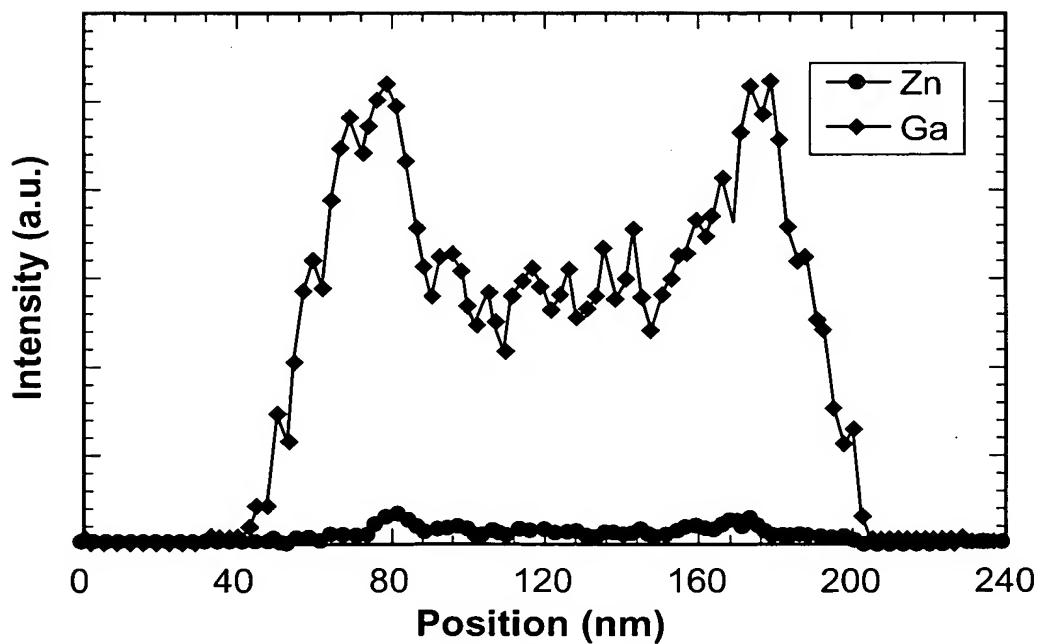


FIG. 11

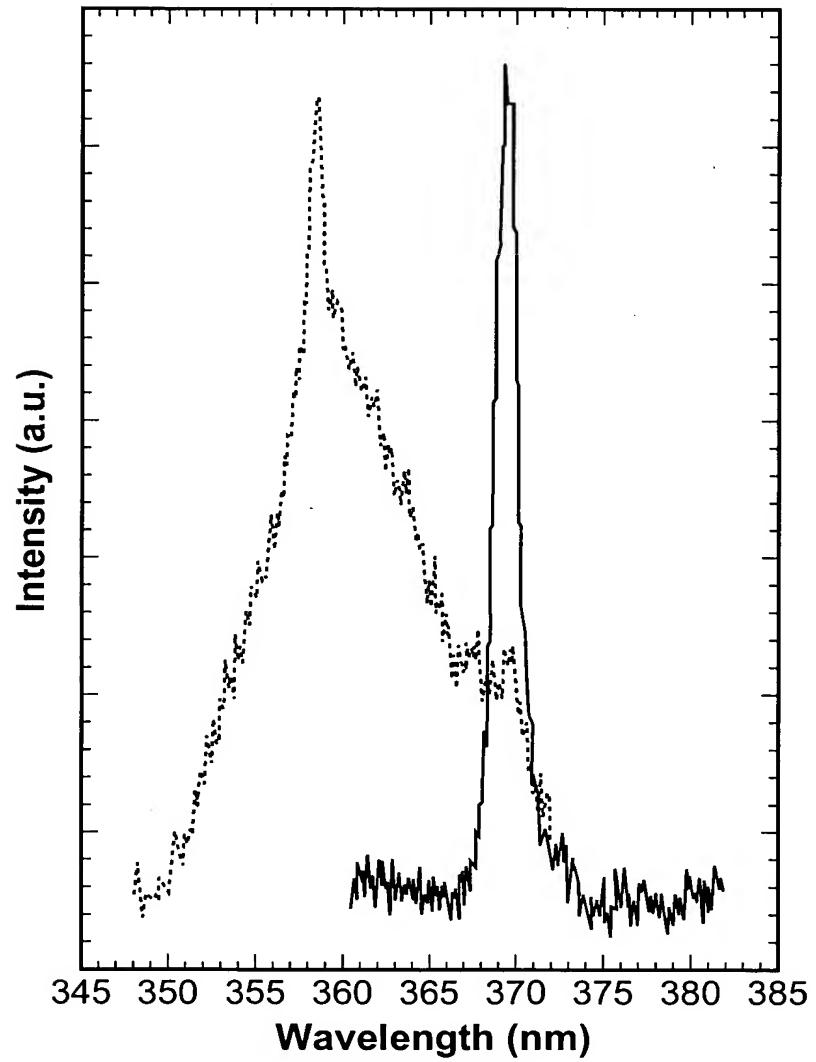


FIG. 12

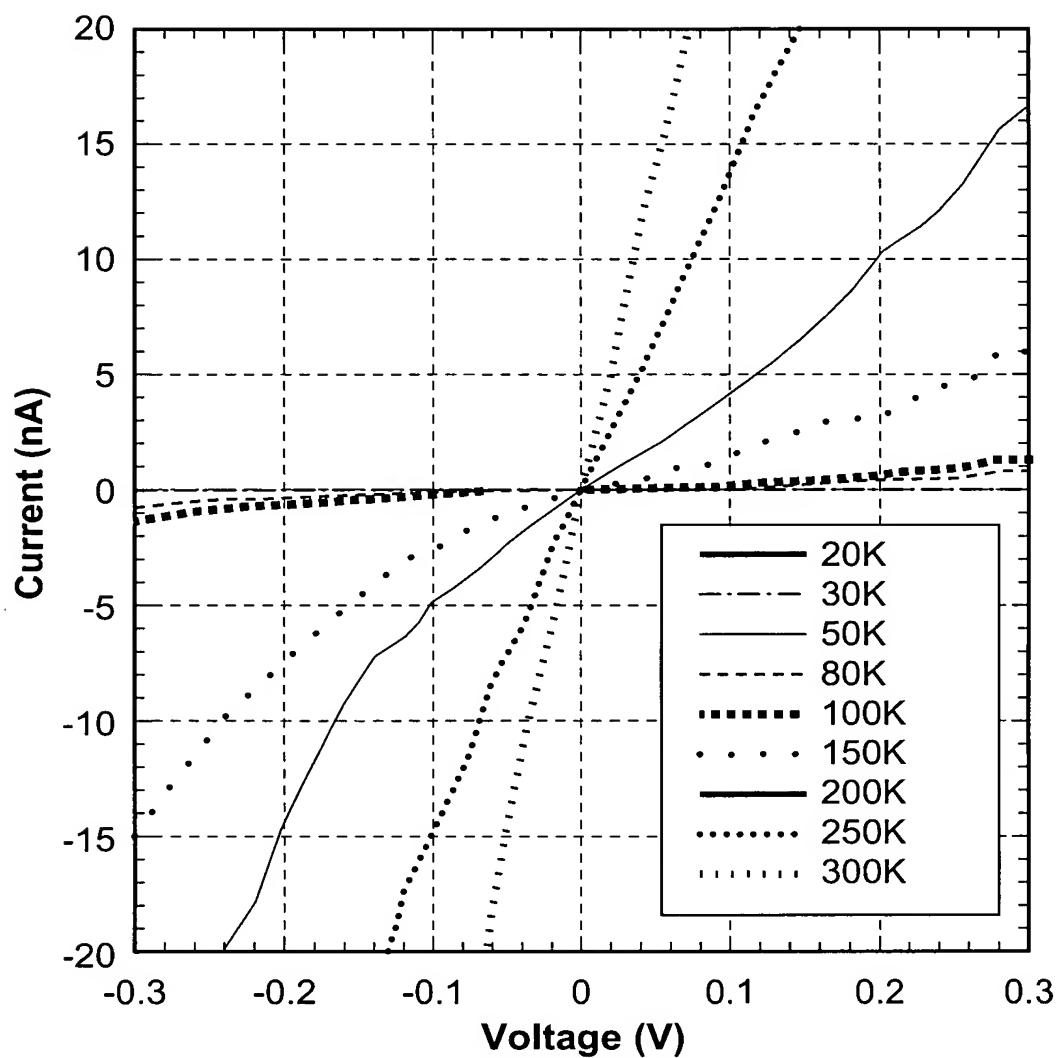
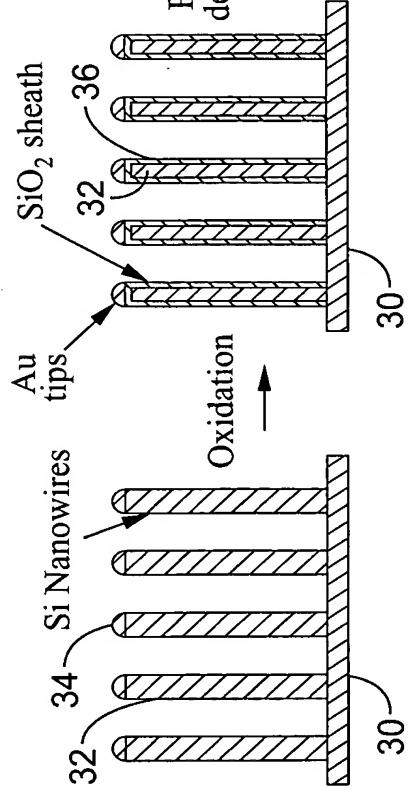
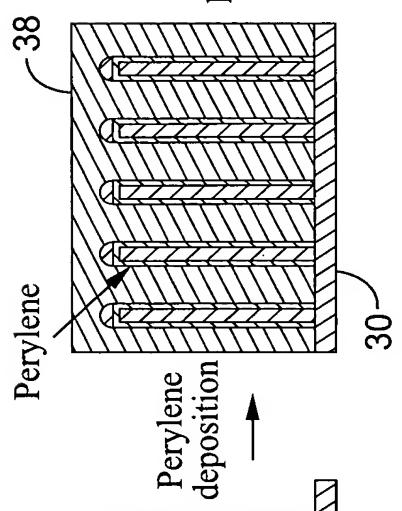
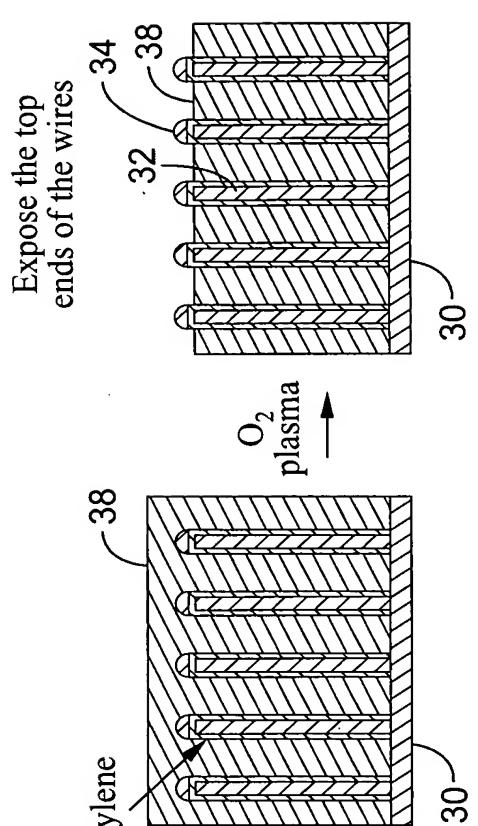
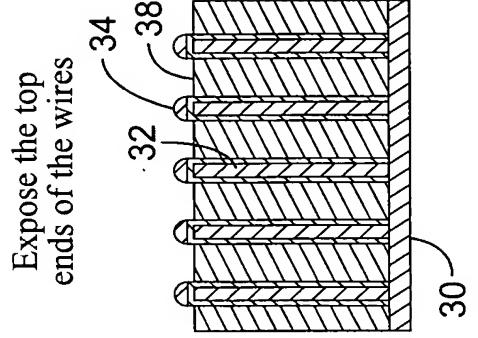
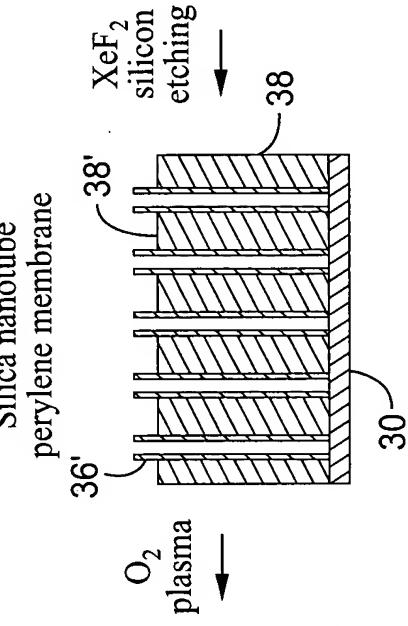
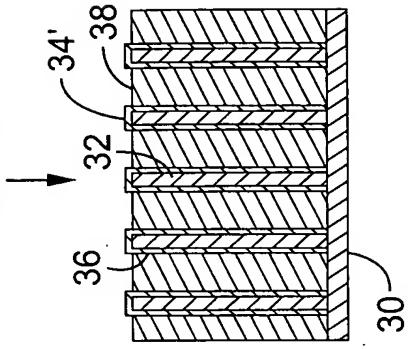
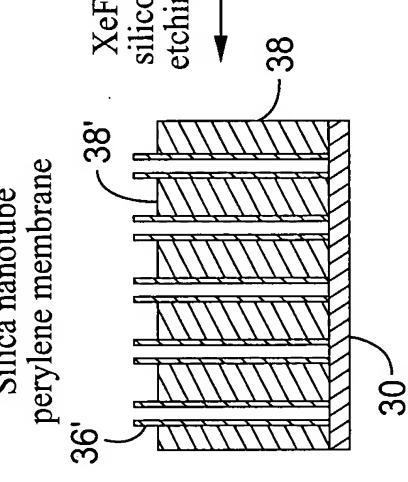


FIG. 13

+

**FIG. 14A****FIG. 14B****FIG. 14C**

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FIG. 14D**FIG. 14E****FIG. 14F****FIG. 14G**

+

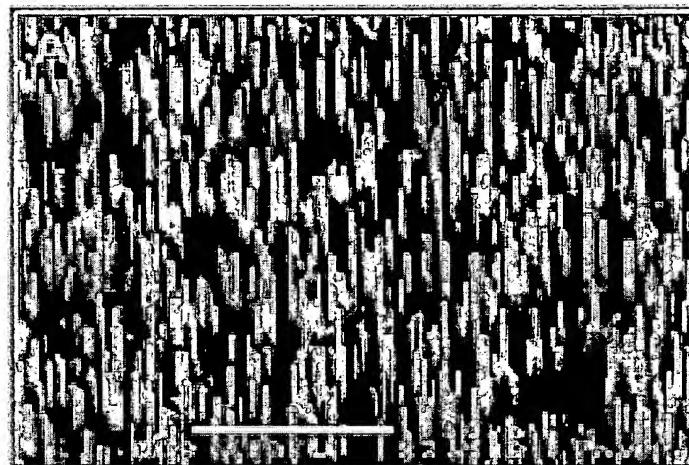


FIG. 15A

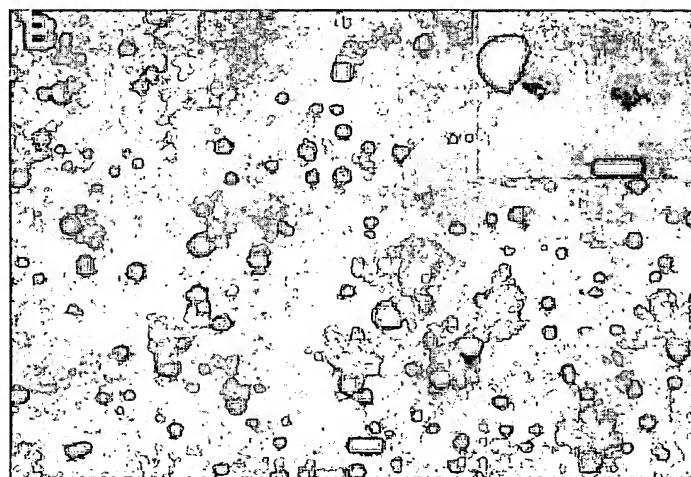


FIG. 15B

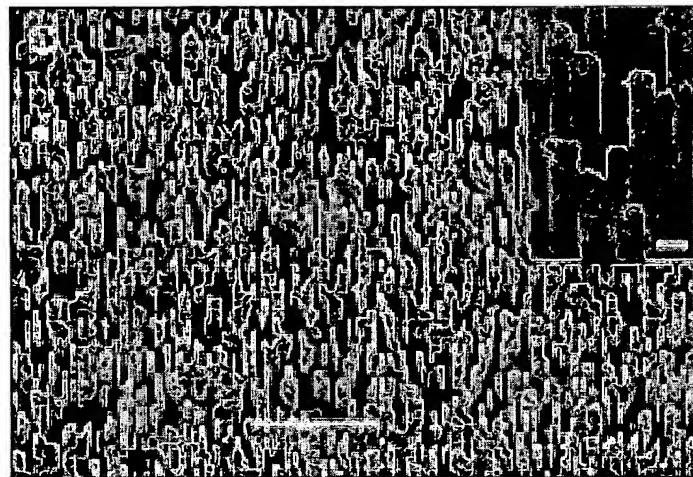


FIG. 15C

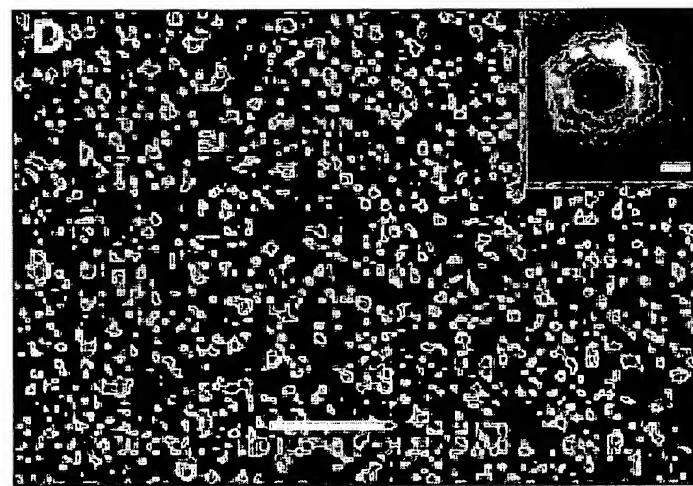


FIG. 15D



FIG. 16A

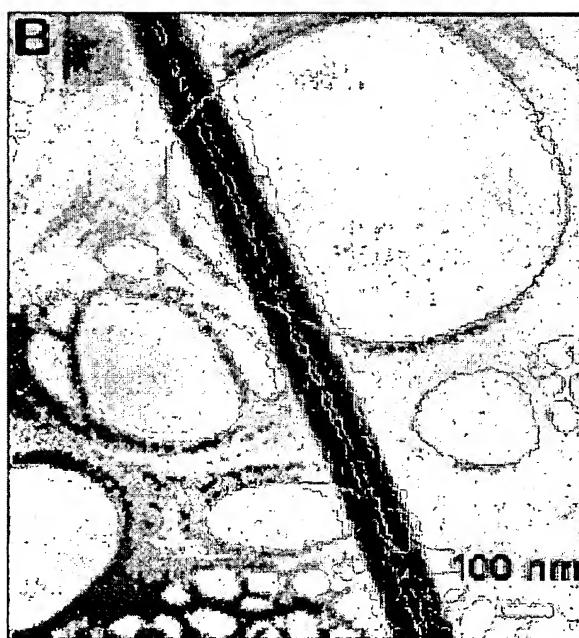
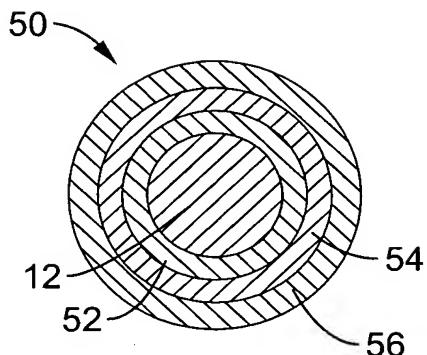
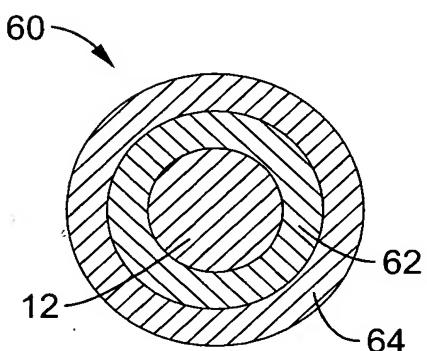
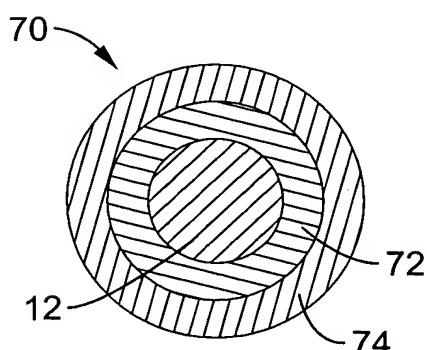
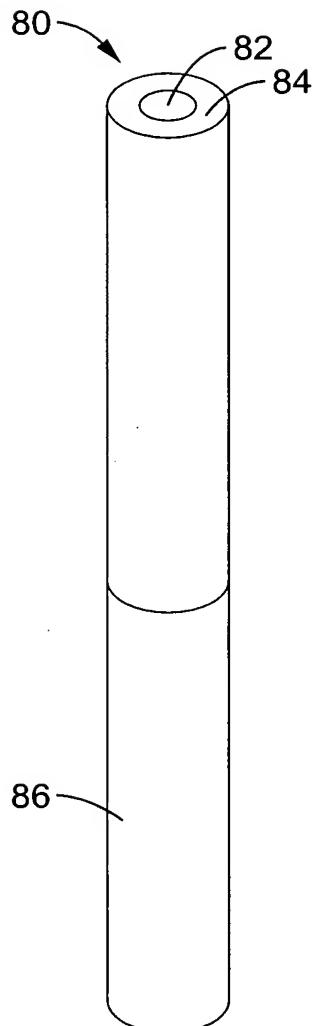
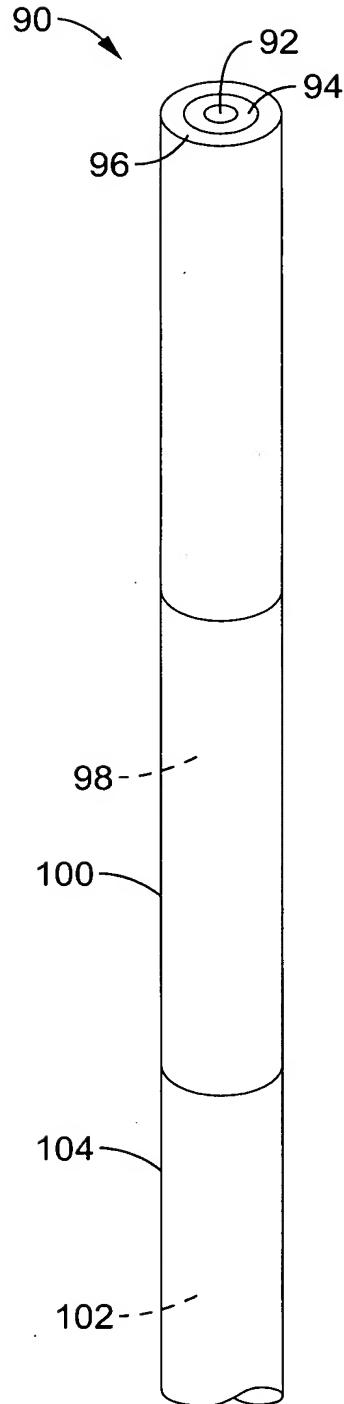


FIG. 16B

**FIG. 17****FIG. 18****FIG. 19****FIG. 20****FIG. 21**

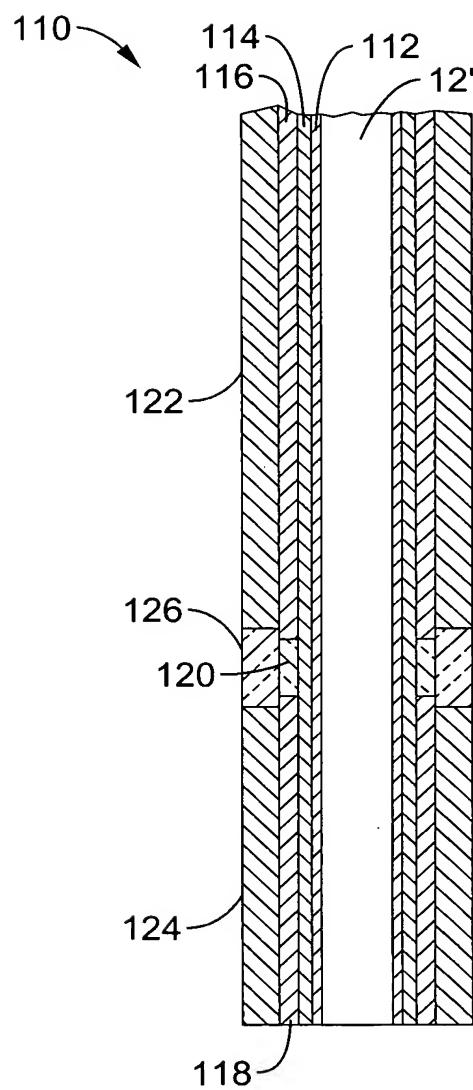


FIG. 22